

UI Debalers 2.0

Instrumentation and Data Collection for Debaler Project Meeting minutes

Location: JML

Date: 10-28-2020

Attendees: Evan Allen, Nathan Stout, Benjamin Zimmerman, & Hope de Avila

Time: 3:00-4:00 p.m.

• Meeting Agenda

- Discuss the client meeting and testing results
- Discuss/Edit the Value Proposition
- Discuss current design ideas and progress (what can we finish before the break)
- Discuss how we can fix the current prototype and make the hay elevator work

• Meeting Notes

- The client meeting was helpful and productive
 - We need to get on the horse as far as design and manufacturing goes, documentation is up to date though so that is good.
 - We will most likely schedule a meeting with the client soon once we have more designs figured out
- Evan will work on the Value proposition tonight and get it finished
- Processing head fixes, as well as conveyor improvements are the most important
 - We will continue to test out the head to see if it is salvageable or works well enough
 - If we cannot get the head to work correctly, we may need to discuss with the mentor to find out what is most important, a working processing head or automated system that collects data.
- The team tested out Timothy Hay on the debaler, and it actually worked well at an angle of 17degrees and quick modifications to the processing head
 - The team is looking forward to seeing the hay elevator in action and it is a good idea to rotate motor direction to correct bale jams that occur in between the bottom of the processing head and the

loading chute. 4 inches was the optimal distance between the loading plate and the bottom of the processing head.

- **Action Items In-Progress**

Action Item	Personnel Responsible	Status	Deadline
Value Proposition	Evan	Not Started	10-29-2020
Control Algorithm Completion	Evan	In-Progress	10-28-2020
Conveyor Completion	Nathan and Ben	In-Progress	11-11-2020
Improvements to processing head Completion	Hope	In-Progress	11-4-2020

- **New Action Items**

Action Item	Personnel Responsible	Status	Deadline
Design Review	All members	Not started	11-13-2020